



Select Weather

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Chapter 1: Introducing Select Weather

Introducing Select Weather

Select Weather works with the OMNI Weather Station (OWS) to monitor and log conditions at your site. This gives you accurate, local weather conditions instead of general conditions from an off-site location.

Monitoring conditions outside your facility can help you more efficiently control conditions inside. If you are running a livestock facility, it can help you make informed decisions about manure pumping and spreading, crop burning, and other important outdoor activities.

Select Weather allows you to monitor temperature, humidity, wind speed, and wind direction. With the optional Phason Rain Gauge, you can monitor rainfall intensity and amounts. Easy-to-read displays show you current conditions. Charting and reporting tools allow you to review and print weather information for any previous period. Weather charts and reports can provide proof of past conditions and help settle manure spreading or odor disputes.

Select Weather features

- ◆ "Near-real-time" information collection and display
 - ◆ Wind direction
 - ◆ Wind speed
 - ◆ Wind chill
 - ◆ Temperature
 - ◆ Humidity
 - ◆ *Optional rainfall*
- ◆ Weather Station Viewer
- ◆ Customizable charting and reporting tools
 - ◆ Adjustable sampling type (average or point)
 - ◆ Adjustable sampling interval (00:10 to 24:50 hours:minutes)



Information display

- ◆ **Status viewer** is a visual display that shows the current temperature, humidity, wind speed, and wind direction. If the optional Phason Rain Gauge is installed, it displays the previous hour's rainfall and the daily total.
- ◆ **Weather chart** can display up to five types of weather information on the chart. Select a date range and then choose any or all of the following to display: temperature, wind speed, wind direction, and humidity. If you have the Phason Rain Gauge installed, you can display daily rainfall.
- ◆ **Weather report** is a detailed, tabular report that lists information for all available sensors. You choose the sampling interval, sampling type, and date range

For more information about Select Weather viewers, charts, and reports, read **Chapter 3: Analyzing data** on page 18.

OMNI Weather Station

The OMNI Weather Station (OWS) works with Select Weather to monitor and log conditions at your site. The Weather Station hardware consists of the sensors (wind speed, wind direction, temperature, and humidity) and the main unit. All cables for connecting the sensors to the main unit are provided.

Features

- ◆ Easy installation
- ◆ Durable and rugged sensors
- ◆ Low-maintenance design
- ◆ Rugged enclosure (corrosion resistant, water resistant, and fire retardant)
- ◆ Limited warranty (two years)



Optional rain gauge

The Phason Rain Gauge connects quickly and easily to the OMNI Weather Station and allows you to monitor hourly and daily rainfall.

The Rain Gauge includes a 30 foot cable and strain relief for connecting to the Weather Station.



Installing and logging in to OMNI Select

OMNI Select has an installation wizard that guides you through the installation.

1. Insert the USB stick into one of your computer's USB ports.
Windows might install drivers for the USB stick.
The *Autoplay* window should display. If the window does not display, see the NOTE below. If it does not start automatically, find and start the file on the USB stick.
2. In the *Autoplay* window, select **Open folder to view files**.
Windows Explorer displays.
3. Double-click `Install_OmniSelect.exe`.
4. Follow the instructions on the screen.
5. When installation has finished, remove the USB stick.

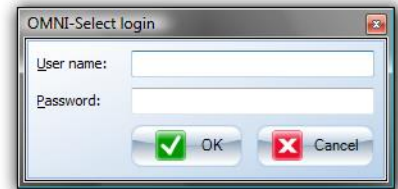


To manually start driver installation, open **My Computer** or **Windows Explorer**. Browse the USB stick and double-click the file `Install_OmniSelect.exe`.

Logging in to OMNI Select

All OMNI Select users must have a user name and password to access settings, configuration, viewers, and reports. Security helps prevent unauthorized access and allows OMNI Select to track which users have performed certain tasks within the program.

Each time you open the Main window—the one with the **Settings/Configuration/Reports** buttons at the top—the *OMNI Select login* window displays.



- ◇ The default username is `sysadmin` and the password is `omniadmin`.
- ◇ For more information about user names and passwords, see the **OMNI Select user manual**.

To access settings, configuration, viewers, and reports, you need to log in to OMNI Select. To log in to OMNI Select, you must have a username and password.

To log in to OMNI Select

1. On the Communication Center, click **Login**.
The *OMNI Select login* window displays.
2. Beside User name, type your user name.
3. Beside Password, type your password.
4. Click **OK**.

Shutting down OMNI Select

Your computer should be running at all times. When your computer is not running, the OMNI Select services are not running. When the OMNI Select services are not running, equipment operates at its last settings, but OMNI Select cannot collect information or update settings.

Do not use power management settings such as "sleep" or "hibernate" mode. When your computer is in these modes, OMNI Select does not function properly.

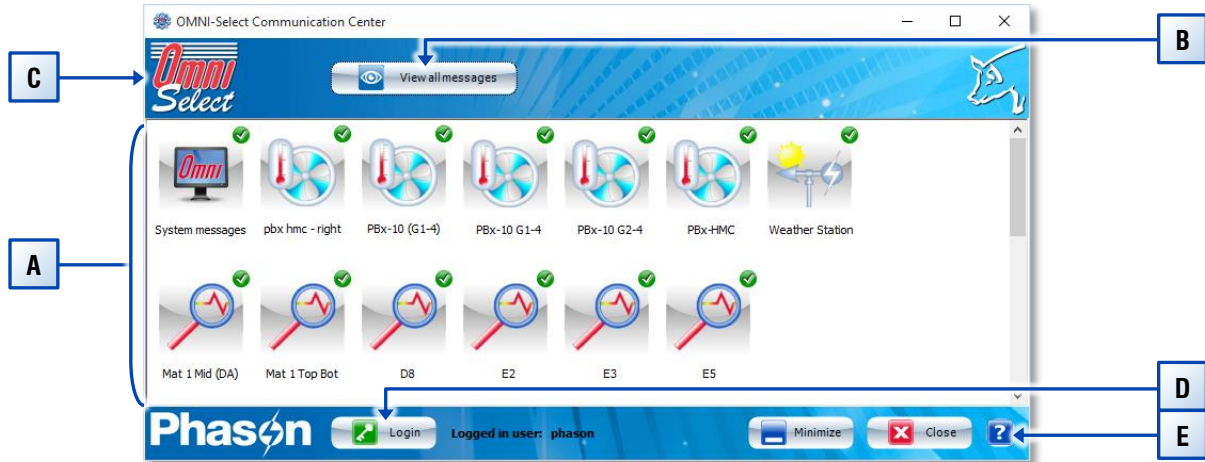
If you have to shut down your computer, **start it again as soon as possible.**

Select Weather windows

Communication Center

The Communication Center displays all communication, status, and alarm messages from OMNI Select modules and devices. Check the Communication Center regularly to ensure systems functioning normally and to see if there are problems or potential problems.

The Communication Center is the only area of OMNI Select that is available to all users, regardless of their access. The Communication Center is also the gateway to the Main window, where you can access settings, configuration, and reports.



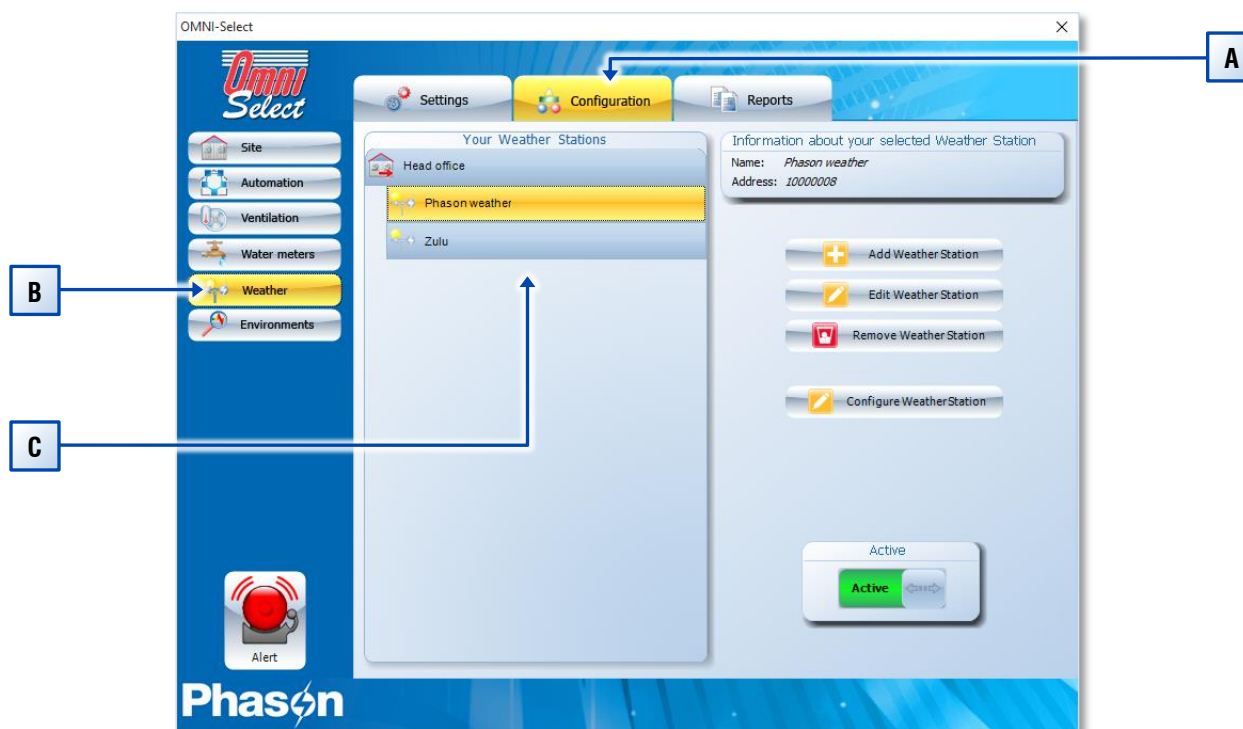
- A** This area lists your devices and their status. To see a list of communication and system messages for a specific device, click on that device.
- B** This button opens a window that displays all messages for all devices.
- C** This button opens a window that displays version information.
- D** This button opens the OMNI Select login window, which is where you enter your username and password to access other areas of the system.
- E** This button opens the Help files window, which is where you can open a manual.

For more information about logging in to OMNI Select, read **Installing and logging in to OMNI Select** on page 7.

For more information about the Communication Center, see *Monitoring the Communication Center* in the **OMNI Select user manual**.

Configuration window

The *Configuration* window is where you configure the structure of your site, as well as Select Weather options you configure seldom or only once at the beginning.

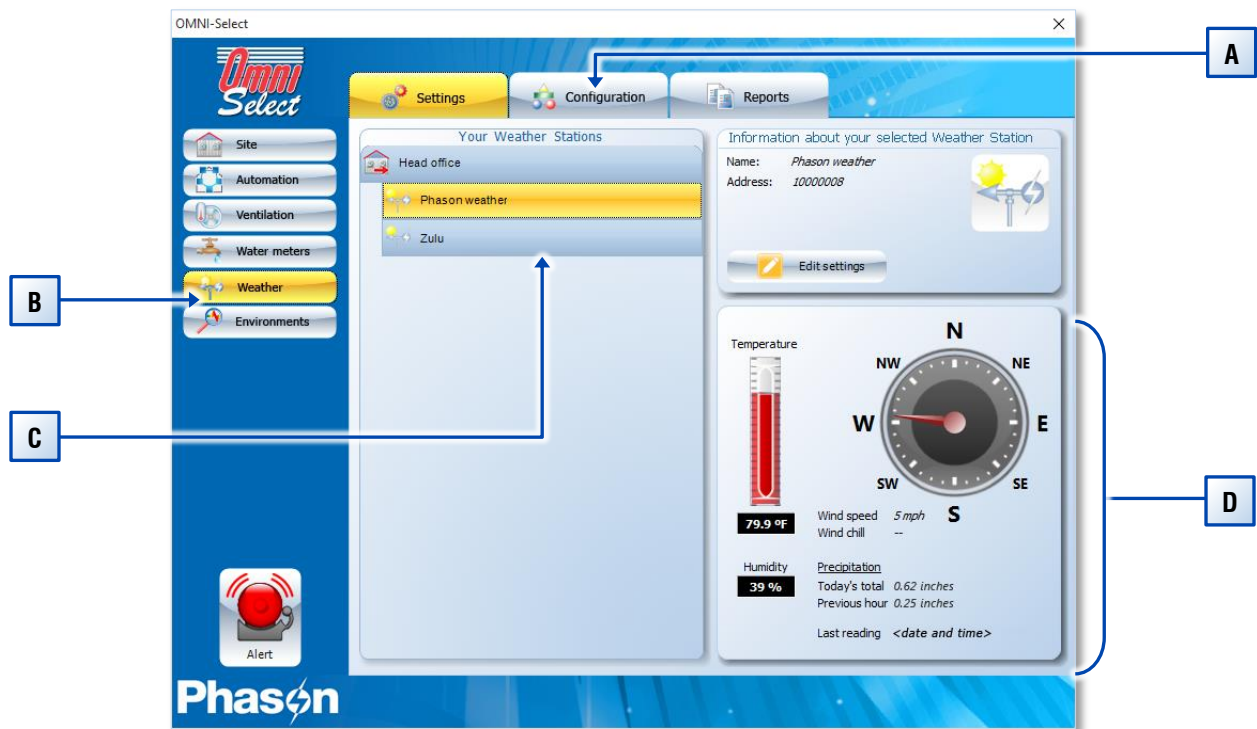


- A** This button displays the configuration window.
- B** This button displays the configuration for Select Weather.
- C** This is a list of Weather Stations in each building at your site and where you select the device you want to configure.

For more information about the *Configuration* window and configuring Weather Stations, read **Configuring Weather Stations** on page 16.

Settings window

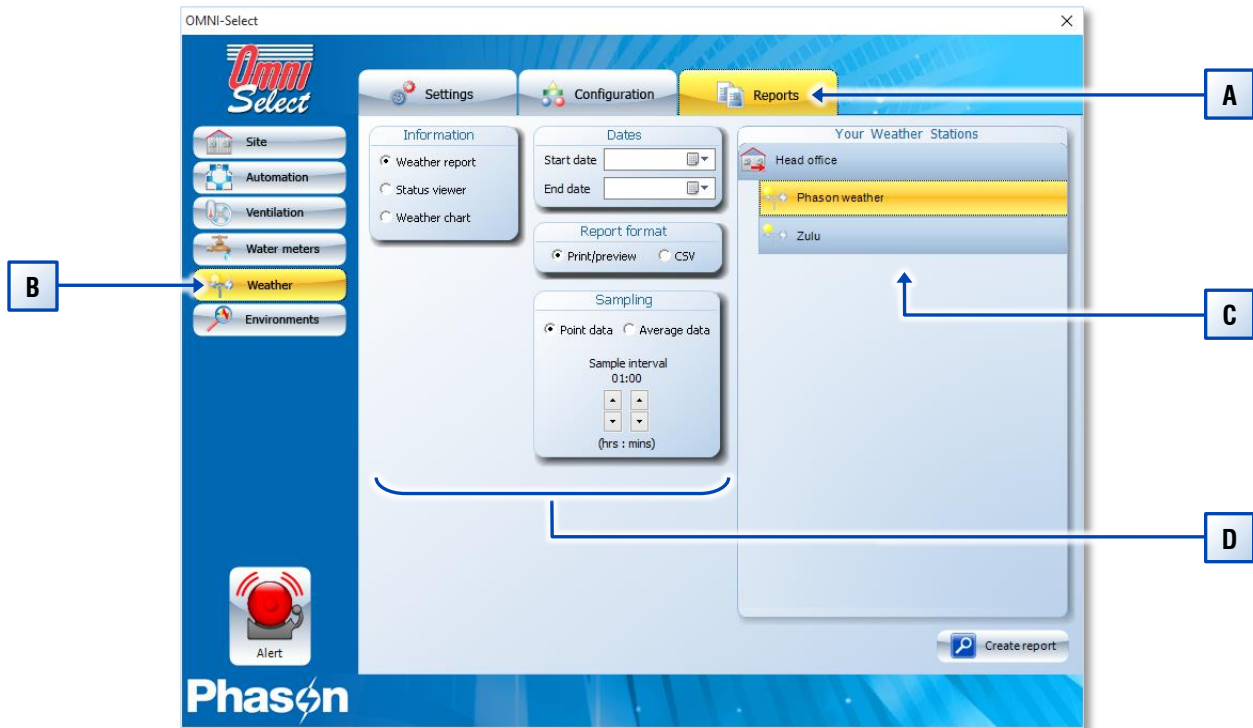
The *Settings* window is where you setup alarm conditions for each input.



- A** This button displays the *Settings* window.
- B** This button displays the settings for Select Weather.
- C** This is a list of Weather Stations in each building at your site and where you select the device you want to set up.
- D** These are the last reported conditions.

For more information about the *Settings* window and setting up Weather Stations, read **Setting the communication alarm option** on page 17.

Reports window



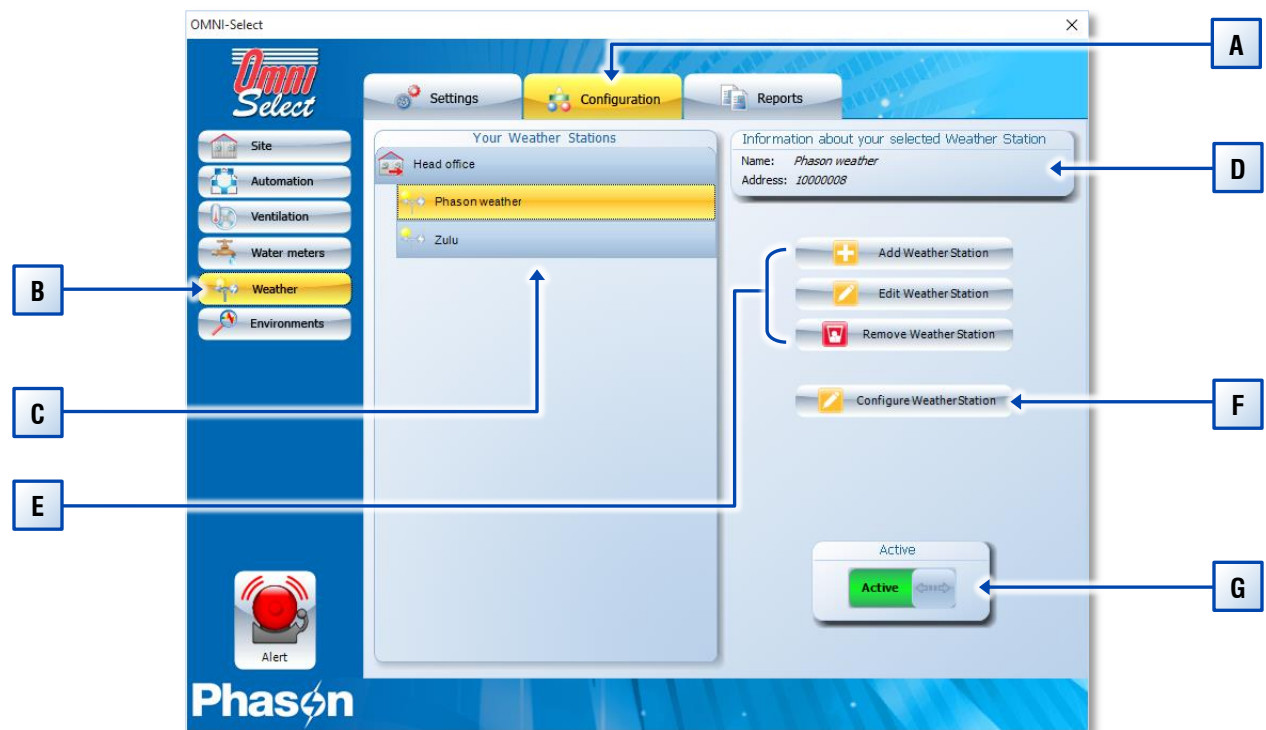
- A** This button displays the reports window.
- B** This button displays the available Select Weather reports.
- C** This is where you select the weather station.
- D** This is where you select the information you want (report, viewer, or chart) and the details, such as dates and sampling.

For more information about the *Reports* window, read **Chapter 3: Analyzing data** on page 18.

Chapter 2: Configuring Select Weather

Configuring Select Weather

The *Configuration* window is where you configure the structure of your site, as well as Weather Station options you configure seldom or only once at the beginning.



- A** This button displays the *Configuration* window.
- B** This button displays the *Configuration* for Select Weather.
- C** This is a list of Weather Stations in each building at your site and where you select the device you want to configure.
- D** This is the name and address of the selected Weather Station.
- E** The top two buttons open the *Weather Station description* window, which is where you add a new Weather Station or edit the selected Weather Station. The bottom button removes the selected Weather Station from your system.
- F** This button opens the Weather Station configuration window, which is where you configure the selected Weather Station.
- G** This is where you activate or deactivate the selected Weather Station.

Adding, editing, and removing Weather Stations

Select Weather identifies Weather Stations using an address. An address is a unique eight-digit code the software uses to locate and identify each device. Each Weather Station is programmed with an address before it leaves the factory. To locate the address for a specific Weather Station, check inside the cover. For more information, read the **OWS installation guide**.

Because remembering eight-digit codes to identify Weather Stations is all but impossible for us humans, Select Weather makes it easier by allowing you to give each device a name. When giving a device a name, try to make the name as descriptive and useful as possible. For example, *North Corner*, *Lagoon*, and *East Wing* are more descriptive and useful than *OWS 1*, *OWS 2*, and so on.



- ◇ Before you can add Weather Stations, you must have at least one building. For information about adding buildings, see the **OMNI Select user manual**.
- ◇ If you have a Weather Station you do not want to assign to a specific building, create a general building and call it "outside", or something similar.
- ◇ If you are using a Phason Wireless Adapter (PWA) or iWire Radio for communication, see the installation guide for that product.

To add a Weather Station

1. In the main window, click **Configuration**, and then **Weather**.
2. Click **Add Weather Station**.
The *Weather Station description* window displays.
3. Beside *Name*, type a descriptive name for the Weather Station.
4. Beside *Address*, type the address of the new Weather Station, exactly as it appears on the product. For information such about where to find the address, see the **OWS installation guide**.
5. Beside *Building*, select the building in which the Weather Station is located.
6. If you are using wireless communication, beside *Remote Radio*, select the address of the wireless device connected to the Weather Station.
7. Click **OK** to save the information and return to the *Configuration* window.



When you add a Weather Station, its status is automatically set to *active*. If you want the Weather Station to be inactive, follow the **Activating and deactivating Weather Stations** instructions on page 15.

To edit a Weather Station

1. In the main window, click **Configuration**, and then **Weather**.
2. Below *Your Weather Stations*, select the Weather Station you want to edit and then click **Edit Weather Station**.
The Weather Station description window displays.
3. Make the changes.
 - ◆ Beside *Name*, type a descriptive name (maximum 28 characters) for the device.
 - ◆ Beside *Address*, type the address of the device, exactly as it appears on the product. For information about where to find the address, see the **OWS installation guide**.
 - ◆ Beside *Building*, select the building in which the device is located.
 - ◆ If you are using wireless communication, beside *Remote Radio*, select the address of the adapter wireless device connected to the Weather Station.
4. Click **OK** to save the device information and return to the *Configuration* window.

To remove a Weather Station

1. In the main window, click **Configuration**, and then **Weather**.
2. Below *Your Weather Stations*, select the Weather Station you want to remove and then click **Remove Weather Station**.
A warning message displays.
3. To remove the Weather Station, click **Yes**. To cancel and return to the previous window, click **No**.

Activating and deactivating Weather Stations

When you add a Weather Station, its status is automatically set to *active*. When a Weather Station is active, you can configure and set up the Weather Station, as well as view and print charts and reports for it.

When a Weather Station is *inactive*, there is no communication with the device. You cannot send setting changes or collect and receive data from it. You can view and print charts and reports for it using existing data.

To activate or deactivate a Weather Station

1. In the main window, click **Configuration**, and then **Weather**.
2. Below *Your Weather Stations*, select the Weather Station you want to activate or deactivate.
3. Below *Active*, click and drag the slider to the status you want.

Configuring Weather Stations

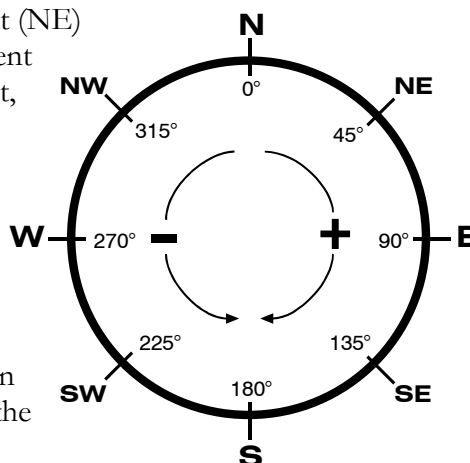
Compensating for incorrect alignment

Direction adjustment is the amount of adjustment in degrees (-180 to 180°) for the wind direction sensor to compensate for mounting the sensor facing the wrong direction.

Clockwise=add

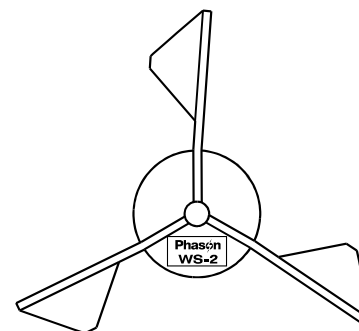
Counterclockwise=subtract

- ◆ If you mounted the wind direction sensor facing northeast (NE) instead of north (N), you would set the direction adjustment to -45° (because north is counterclockwise from northeast, you subtract).
- ◆ If you mounted the wind direction sensor facing northwest (NW) instead of north, you would set the direction adjustment to 45° (because north is clockwise from northwest, you add).
- ◆ If you mounted the wind direction sensor backwards (facing south instead of north), you would set the direction to either 180° or -180° (because south is halfway around the circle from north, it doesn't matter if you go clockwise or counterclockwise).



Sensor type

Selecting the wrong type will cause wind speed readings to be wrong. Most Phason wind speed sensors have a label on the top that shows the sensor type. In the example on the right, the sensor type is WS-2. If your sensor has no label, the type is WS-1.



Rain gauge

Unless told by Phason customer support, leave the *Rainfall per pulse* at the default value of 0.01 inches or 0.0254 centimeters.

To configure Weather Stations

1. In the main window, click *Configuration*, and then **Weather**.
2. Below *Your Weather Stations*, select the Weather Station you want to configure.
3. Click **Configure Weather Station**.
The *Weather Station configuration* window displays.

4. Make any necessary configuration changes.
 - ◆ If your wind direction sensor is not aligned correctly, beside *Direction adjustment*, select the existing value and then enter a new one. You can also click **Up** or **Down**.
 - ◆ Below *Speed sensor type*, make sure you have the correct sensor selected.
5. Click **OK** to save the changes and return to the *Configuration* window.

Setting the communication alarm option

For each Weather Station, you have the option to enable communication *alarms* or *warnings*. Communication errors occur if an active device, such as a Weather Station, becomes unresponsive.

When you enable communication *alarms* and there is a communication error, OMNI Select displays a red "X" in the Communication Center. If you have **Select Alert**, the program notifies all available contacts about the problem.

When you enable communication *warnings* and there is a communication error, OMNI Select displays a yellow "!" in the Communication Center. If you have **Select Alert**, the program *does not* notify contacts.

Communication errors

1. In the main window, click *Settings*, and then **Weather**.
2. Below *Your Weather Stations*, select the Weather Station you want to set up.
3. Click **Edit settings**.
The *Weather Station settings* window displays.
4. Below *Communication errors*, select the alarm option you want.
5. Click **OK** to save the changes and return to the main window.

Chapter 3: Analyzing data

Select Weather collects environmental (weather) data at your site. This gives you accurate, local weather information instead of general conditions from an off-site location such as an airport.

With Select Weather, you can view current conditions, or create charts or reports of historical conditions. The easy-to-read display on the Weather Station viewer shows you up-to-date conditions at your site. The charting and reporting tools allow you to review and print weather information for any previous period or export the information to a third-party software package.

Monitoring conditions outside the barn can help you more efficiently control conditions inside the barn. Historical weather charts and reports provide proof of past conditions and can help settle manure spreading or odor disputes. Monitoring wind conditions can help you know when to spray or burn crops and pump or spread manure. Monitoring rainfall can help you know when to do field work. All information can help you make better and more informed predictions and decisions.



- ◇ OMNI Select collects, displays, and stores information only when it is running. To make sure you always have consistent data, make sure OMNI Select is always running.
- ◇ The wind sensors need a minimum wind speed of about 5 mph (8 km/h) to provide accurate readings. As wind speed increases, accuracy increases.

Creating Weather reports

One of the great advantages of Select Weather is the detailed reports that are available. The Select Weather report is available in preview/PDF or CSV format.

Preview/PDF

These reports display using OMNI Select's built-in Report Preview window. From there, you can print or save reports as a PDF (portable document format).

CSV

You can import CSV reports into a third-party reporting, database, or spreadsheet program, or e-mail them off-site for evaluation. CSV reports are not suitable for normal viewing.

Weather Report description

Weather Reports provide detailed temperature history over the date range you selected. In addition to selecting the Weather Station you want in the report, you select a sampling interval and type.

Weather Report

Your site name

Report dates:

Report created:

Data interval: 02:00 (hh:mm)

Sampling type: Point data

Temperature units: Fahrenheit (°F)

Precipitation units: Inches

Speed units: Miles per hour



Phason Weather

yyyy/mm/dd

Time	Temperature	Humidity	Wind speed	Direction	Precipitation
00:00	36.0	70	16	SE	2.72
02:00	34.2	70	14	ENE	3.71
04:00	32.9	66	16	SW	3.38
06:00	31.3	57	18	SE	3.28
08:00	29.6	45	22	NE	3.37
10:00	31.5	42	14	SSW	1.75
12:00	35.3	40	14	S	0.05
16:00	40.5	57	19	SSE	0.00
18:00	39.8	57	17	SE	0.00
20:00	36.8	52	14	ESE	0.00
22:00	34.4	55	10	ESE	0.00

Daily Summary	Average	Minimum	Maximum	Total
Temperature (°F)	34.9	29.6	40.9	--
Humidity (%)	55	39	77	--
Wind speed (mph)	16	4	25	--
Wind direction	SE	--	--	--
Precipitation (inches)	--	--	--	15.80

yyyy/mm/dd

Time	Temperature	Humidity	Wind speed	Direction	Precipitation
00:00	32.7	56	14	SE	0.00
02:00	31.0	63	11	S	0.00
04:00	29.8	70	6	SW	0.00
06:00	28.4	65	14	SSE	0.00
08:00	28.0	58	17	SW	0.00
10:00	33.1	49	16	ESE	0.00

Information about the report

The data for the date range, sorted by date and time.

Each day includes a statistical summary at the bottom.



Wind chill displays only if the wind speed is greater than 3 mph (4.9 km/h) *and* the temperature is less than 50°F (10°C).

Sampling interval

Sampling interval is *how often* there is an entry in the report. You can select a sampling interval of between 10 minutes and 24 hours, 50 minutes. In the following example, the sampling interval is 10 minutes.

9:10	68.0°F
9:20	69.5°F
9:30	70.5°F

Sampling type

Sampling type is *how* you read the data at the sampling intervals. If you select *point data*, you will get the exact reading for that interval. If you select *average*, you will get the average of the data during that interval.

- ◆ In the example, if you select *point data* for sampling type and *30 minutes* for sampling interval, the temperature in the report would be 70.5°F, the actual reading at the 30-minute interval.
- ◆ If you select *average* for sampling type and *30 minutes* for sampling interval, the temperature in the report would be 69.3°F, the average of the three readings during the 30 minutes.

To create reports

1. In the main window, click **Reports**, and then **Weather**.
2. Below *Information*, select *Weather report*.
The window updates and adds additional information required to create the report.
3. Below *Your Weather Stations*, select the Weather Station you want in the report.
4. Below *Dates*, select the start and end dates. For more information, read **Selecting dates** on page 21.
5. If you want to export the data to third-party software, below *Report format*, select *CSV*.
6. Click **Create**.
 - ◆ If you created a printable report, OMNI Select displays your report in the *Report Preview* window. From here you can print or save your report by clicking the appropriate button.
 - ◆ If you created a CSV report, the *Save As* window displays so that you can select a location and save your report. After saving your report, it displays in your default editor.



In Windows 7 or higher, the default reports directory is

C:\Users\<username>\Documents\Phason\OmniSelect\Reports.

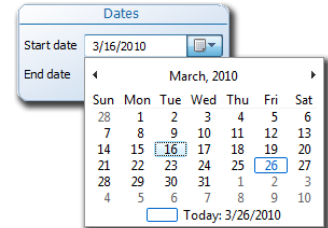
<username> is the name you use to log on to your computer.

7. Click **Close** to return to the *Reports* window.

Selecting dates

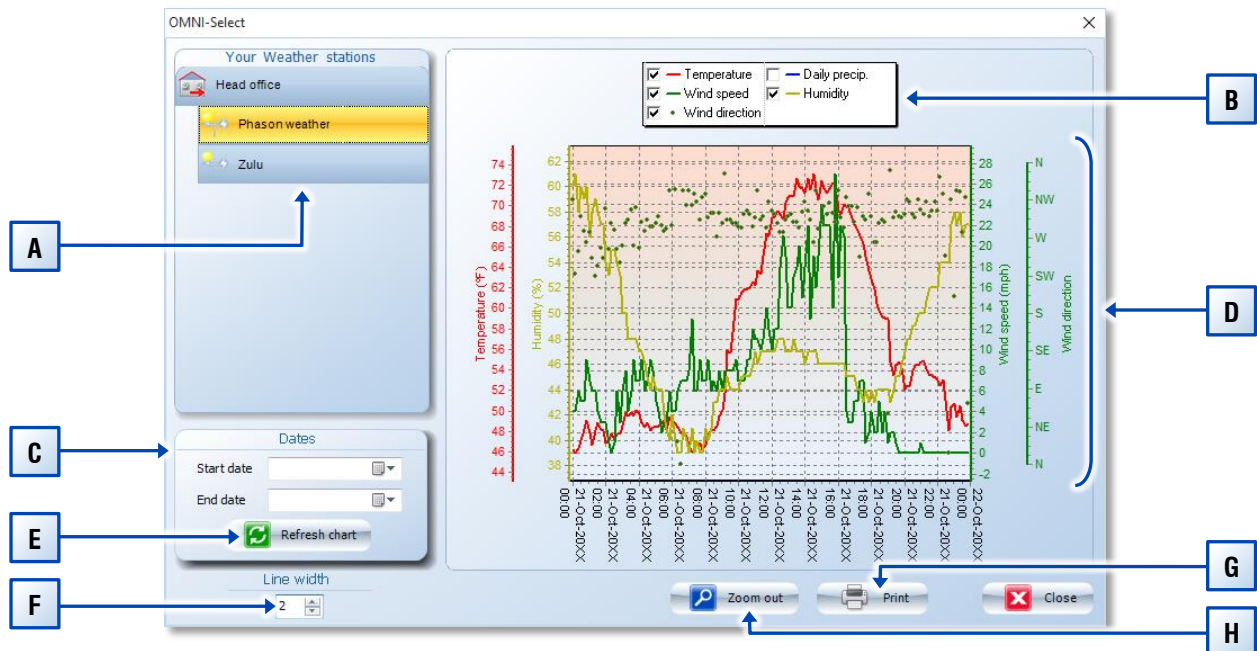
To select date ranges

1. Beside *Start date*, click ▼.
The date selector displays.
2. Select a start date:
 - ◆ To move backward or forward through the months, click ◀ or ▶.
 - ◆ To select a specific month, click the month on the calendar and then select the month you want.
 - ◆ To move forward and backward through the years, double-click the year on the calendar and then select the year you want.
3. Repeat steps 1 and 2 for the end date.



Viewing Weather charts

The Weather chart allows you to create, view, and print charts. Charts can display wind direction, wind speed, temperature, humidity, and daily rainfall.



- A** This is a list of Weather Stations in each building at your site and where you select the Weather Station you want to view.
- B** This is the legend for the chart, and where you select what you want to display.
- C** This is where you select the date range.
- D** This is the chart area. You can zoom in and scroll along the chart.
- E** This is how you refresh the chart. Refresh the chart if you change the date range.
- F** This is where you change the width of the lines and points in the chart.
- G** This is how you print the chart.
- H** This is how you zoom out from the chart.



You cannot save Weather charts, but you can view them again as long as the information remains in the database.

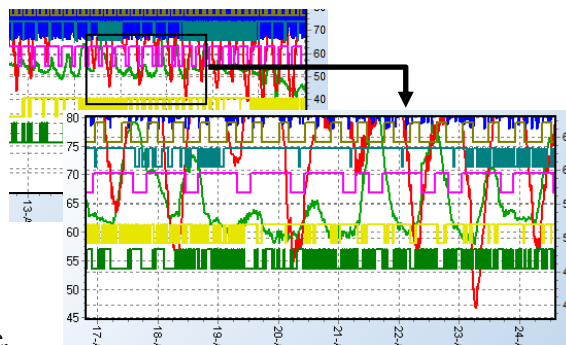
To view charts

1. In the main window, click **Reports**, and then **Weather**.
2. Below *Information*, select *Weather chart*.
The window updates.
3. Below *Dates*, select the start and end date for the chart. For more information, read **Selecting dates** on page 21.
4. Below *Your Weather Stations*, select the Weather Station you want in the chart.
5. Click **Show chart**.
The Weather chart displays.
6. Make any changes to the chart.
 - ◆ To change the information displayed, deselect any sensors you do not want to view and then select the ones you want.
As you select or deselect inputs, the chart updates.
 - ◆ To change the Weather Station, below *Your Weather Stations*, select the one you want to view.
As you select different Weather Stations, the chart updates.
 - ◆ To change the date range, below *Dates*, select a new start and/or end date and then click **Refresh chart**.
The chart updates but if you zoomed in on the chart, the zoom remains the same.
7. Click **Close** to return to the *Reports* window.

To zoom and pan charts

You can zoom in, zoom out, and scroll along a chart.

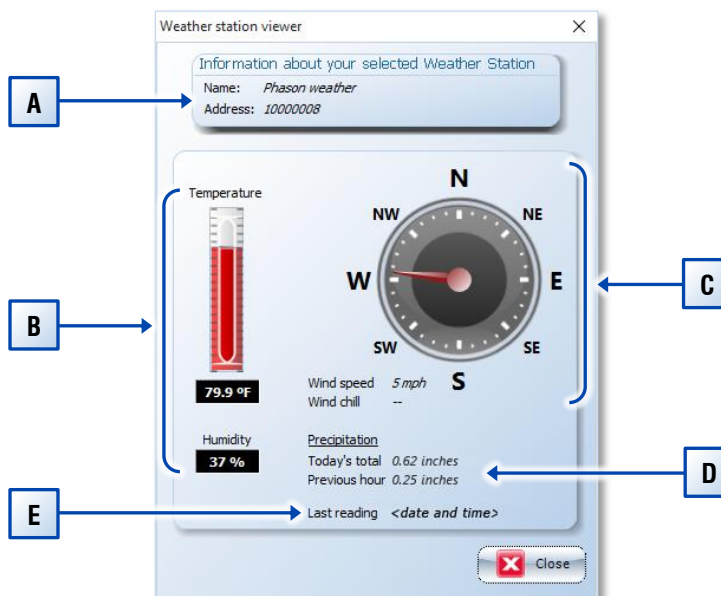
- ◆ **To zoom in**, click and drag to select the area you want to magnify and then release the mouse button. A chart magnifies the area you selected.
- ◆ **To zoom out**, click on the chart, drag to the top-left and then release the mouse button, or click **Zoom out**. The chart returns to normal magnification.
- ◆ **To scroll along**, right-click the chart and drag the mouse in the direction you want the chart to move.



You can make the chart larger or smaller by left clicking the bottom-right corner of the window and then dragging.

Status viewer

The Weather station viewer shows current conditions at your site.



- A** This is the name and address of the Weather Station you are viewing.
- B** These are the temperature and humidity readings.
- C** These are the wind speed and direction readings. Wind chill displays only if certain conditions are met. See NOTE.
- D** These are the daily and previous hour's rainfall readings. See NOTE.
- E** This is the time of the readings.



- ◇ Wind chill displays only if the wind speed is greater than 3 mph (4.9 km/h) *and* the temperature is less than 50°F (10°C).
- ◇ Precipitation readings display only if the optional Phason Rain Gauge is installed.

To view current conditions

1. In the main window, click **Reports**, and then **Weather**.
2. Below *Information*, select *Status viewer*.
The window updates.
3. Below *Your Weather Stations*, select the Weather Station you want to view.
4. Click **Show viewer**.
The *Weather Station viewer* displays.
5. Click **Close** to return to the *Reports* window.

Troubleshooting

If you are having problems using Select Weather, look up the problem in the table below and then follow the instructions to resolve the problem. If you have a problem that is not listed here, try to determine what might be causing the problem. If you cannot resolve the problem, call your dealer or Phason support. For contact information, see **Service and technical support** at the back of the manual.

Problem/message	Possible cause	Resolution
Information is displaying as " – " in reports and/or viewer.	No data available/no existing condition	Wind chill displays only if the wind speed is greater than 3 mph (4.9 km/h) <i>and</i> the temperature is less than 50°F (10°C). Precipitation readings display only if the optional Phason Rain Gauge is installed.
	Communication problem	Check the communication between the computer and the device. For more information, read the <i>Troubleshooting</i> section of the OMNI Select user manual .
	No power to the Weather Station	Check the incoming power to the Weather Station. For more information, read the OMNI Weather Station installation guide .
	Sensor not connected properly	Check the sensor connections to make sure they are connected correctly and to the proper terminals on the Weather Station. For more information, read the OMNI Weather Station installation guide .
The wind speed is either very high or very low.	Wrong sensor type	Change the wind speed sensor type. For more information, read Configuring Weather Stations on page 16.
The wind direction is incorrect	Sensor not aligned correctly.	Adjust the sensor alignment. For more information, read Configuring Weather Stations on page 16.

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Service and technical support

Phason will be happy to answer all technical questions that will help you use OMNI Select. Before contacting Phason, check the following:

- ◆ Read this guide for information about the feature with which you are having trouble.
- ◆ Read **Troubleshooting** on page 25, and then follow the directions for correcting the problem.
- ◆ If you still have a problem with OMNI Select, collect the following information:
 - ◆ A description of the problem
 - ◆ A description of what you were doing before the problem occurred
 - ◆ The model(s) and serial number(s) of the devices
 - ◆ Any messages displayed by the software



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